

PATENT
Atty. Dkt. No. WEAT/0340

AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) A method of operating one or more downhole devices in a wellbore, comprising:

disposing the one or more devices in the wellbore, the one or more devices having at least an open and a closed position; [[and]]

providing a signal to the one or more devices to move between the open and the closed position, the signal being computer generated based upon an operator's interaction with a touch screen; and

monitoring the signal via the touch screen to confirm movement of the one or more downhole devices between the positions.

2. (Original) The method of claim 1, wherein providing the signal to the one or more devices comprises transmitting the signal to a controller.

3. (Original) The method of claim 2, further comprising moving the one or more devices between the open and the closed position.

4. (Original) The method of claim 1, wherein the one or more devices is operated using fluid pressure.

5. (Original) The method of claim 4, wherein providing the signal to the one or more devices comprises transmitting the signal to a controller.

6. (Original) The method of claim 5, further comprising placing the one or more devices in fluid communication with a fluid source.

7. (Original) The method of claim 5, wherein providing the signal to the one or more devices further comprises selecting an icon representing the one or more devices on the touch screen.

8. (Original) The method of claim 1, further comprising moving the one or more downhole devices between an open position and a closed position.

9. (Canceled)

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10. (Original) The method of claim 8, wherein moving the one or more downhole devices comprises providing a pressure to operate a controller to move the one or more downhole devices.

11. (Original) The method of claim 8, wherein moving the one or more downhole devices comprises providing a first pressure to operate a controller, and providing a second pressure to move the one or more downhole devices.

12. (Currently Amended) A method of monitoring operation of a downhole tool, the method comprising:

providing a signal to the downhole tool, whereby the signal causes the tool to [[move]] switch between an initial and a second position state; and

monitoring variables within a fluid power control system for operating the downhole tool to confirm the position state of the downhole tool, the variables including at least one of pressure, time, total flow, [[or]] and flow rate.

13. (Original) The method of claim 12, wherein monitoring the variables comprises viewing a touch screen having information related to the variables.

14. (Original) The method of claim 13, wherein the touch screen comprises a resistive touch screen monitor.

15. (Original) The method of claim 13, wherein the touch screen comprises a touch sensor, controller, and software driver.

16. (Original) The method of claim 12, wherein the downhole tool comprises one or more fluid control devices.

17. (Original) The method of claim 12, further comprising interacting with the touch screen to modify the operation of the downhole tool.

18. (Previously Presented) A method of operating a plurality of downhole devices in a wellbore, comprising:

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disposing the plurality of downhole devices in the wellbore, each of the plurality of downhole devices having at least an open position and a closed position and in selective communication with a fluid source;

positioning a controller in the wellbore;

generating a signal based upon an operator's interaction with a touch screen;

transmitting the signal to the controller, whereby the controller places a selected downhole device in fluid communication with the fluid source; and

operating the selected downhole device between the open position and the closed position.

19. (Previously Presented) The method of claim 18, further comprising providing a first fluid pressure to move the selected downhole device between the open position and the closed position.

20. (Currently Amended) The method of claim [[18]] 19, wherein the signal comprises a second fluid pressure.

21. (Previously Presented) The method of claim 20, wherein the first fluid pressure is higher than the second fluid pressure.

22. (Previously Presented) The method of claim 18, wherein the signal causes rotation of an actuating member of the controller.

23. (Previously Presented) The method of claim 22, wherein a different downhole device is placed in communication with the fluid source as the actuating member is incrementally rotated.

24. (New) The method of claim 22, further comprising displaying an image representing the rotation of the actuating member on the touch screen.

25. (New) The method of claim 24, wherein the image comprises an indicator bar.

26. (New) The method of claim 18, wherein a single fluid control line extends between the controller and the fluid source.

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27. (New) The method of claim 18, wherein each of the plurality of downhole devices has a fluid control line connected with the controller.
28. (New) The method of claim 27, wherein a single fluid control line extends between the controller and the fluid source.
29. (New) The method of claim 27, further comprising monitoring one or more conditions within the fluid control line of at least one of the plurality of downhole devices.
30. (New) The method of claim 29, wherein the one or more conditions comprise at least one of pressure, time, total flow, and flow rate.
31. (New) The method of claim 29, further comprising notifying the operator if operating the selected downhole device is not completed within an amount of time based on monitoring the one or more conditions.
32. (New) The method of claim 29, further comprising displaying the one or more conditions on the touch screen.
33. (New) The method of claim 18, further comprising removing the controller from fluid communication with the plurality of downhole devices by selecting an icon on the touch screen.
34. (New) The method of claim 18, further comprising displaying a status on the touch screen indicative of the open or closed position for at least one of the plurality of downhole devices.